

# Arsen Cameron

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## EDUCATION

### University of Toronto

Toronto, ON

*Bachelor of Science in Computer Science and Statistics, Minor in Business*

2023 - 2027

- **Dean's List Scholar, CGPA 3.70/4.0**
- **Relevant Courses:** Data Structures, Software Design, **Machine Learning**, Theory of Computation, Linear Algebra, Multivariable Calculus, Probability and Statistics

## PROFESSIONAL EXPERIENCE

### AI Software Developer Intern

May. 2025 – Present

*Peebles Group*

*Toronto, ON*

- Analyzed time series data and implemented a custom neural network to forecast hotel demand, including bookings and cancellations, across **700+ partner hotels**.
- Developed a **Google Lens-style scanner app** that uses an LLM to analyze user inputs and preferences for personalized food and drink recommendations in hotels
- Developed a **reusable LLM-based agent class** and implemented **separate agentic web scrapers** for **wine menus** from restaurant websites via **Google Maps Places API** and for **hotel data** from Booking.com.

### Software Team Lead and Consultant

Oct. 2024 – Apr. 2025

*Finliti*

*Toronto, ON*

- Improved deployment efficiency by **40%** through leading a team of 4 developers to engineer a **custom Kubernetes API extension** to deploy a financial trading library in a Kubernetes cluster.
- Increased system reliability by **30%** by managing **AWS-based encryption and deployment strategies**.
- Enhanced **trading strategy evaluation** by developing a **backtesting program** for Finliti, enabling testing of over **50 trading strategies** and improving evaluation speed by **40%**.

## LEADERSHIP EXPERIENCE

### Technology Director

Sep. 2024 – Apr. 2025

*Biotechnology and Computer Science Association (BACSA)*

*Toronto, ON*

- Achieved a **50%** increase in student engagement by leading **coding workshops** on BioPython and BLAST.
- Gained **100+ newsletter sign-ups** by building and maintaining the **club website**.
- Enhanced the teamwork and coding skills of **25+ students** by coordinating a **coding competition**.

## PROJECTS

### Vino | *React Native, Node.js, MongoDB, OpenAI API, Playwright, Google Maps Places API*

- Built a mobile app with **React Native** that scans menus, parses wines with LLM services, and ranks recommendations based on user preferences.
- Developed a **Node.js + MongoDB** backend with Playwright scraping, Google Maps Places API, and LLM pipelines for wine data and explanations.
- Implemented a **memory system** that learns from survey data and feedback to personalize and improve future recommendations.

### Stock Price Predictor | *Python, React, Supervised Learning, Deep Learning, Reinforcement Learning*

- Developed a **Trading Simulator** that achieved 80% average accuracy across the implemented models: Kernel Regression, Linear Regression, LSTM, Parametric Regression, Q-Learning, TradingNet, XGBoost.
- Integrated a user-friendly front-end interface into the simulator.

### Heritrace | *React, Vite, TypeScript, OpenAI API, StableDiffusion API*

- Developed **Heritrace**, an application that analyzes the origins and meaning of a user's name using the OpenAI API, providing cultural insights based on the country of origin.
- Used **React + Vite** for the frontend and built a custom API endpoint to communicate with inference servers.
- Used **React Webcam** and **Stable Diffusion API** to generate images of how people would look in traditional clothes.

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, SQL, C/C++, HTML/CSS, Bash

**Libraries & Frameworks:** React, React Native, Node.js, Express, TensorFlow, PyTorch, NumPy, Pandas, scikit-learn

**Tools & Technologies:** AWS, Docker, Kubernetes, Git, Unix, MongoDB, Playwright, Google Maps API, OpenAI API